

AMENDMENTS TO THE CLAIMS

Following is a listing of all claims in the present application, which listing supersedes all previously presented claims:

Listing of Claims:

1. (Cancelled)
2. (Previously Presented) The system as claimed in claim 12, wherein the connection pipe comprises an inlet flow path and an outlet flow path for providing fluid communication between the heat pipe and the cooling system.
3. (Previously Presented) The system as claimed in claim 12, wherein the connection pipe comprises:
  - an outlet connection pipe for providing fluid communication from the heat pipe to the cooling system; and
  - an inlet connection pipe for providing fluid communication from the cooling system to the heat pipe.
4. (Original) The system as claimed in claim 3, wherein the control unit comprises:
  - an outlet fluid control unit installed in the outlet connection pipe; and
  - an inlet fluid control unit installed in the inlet connection pipe.
5. (Previously Presented) The system as claimed in claim 4, wherein the outlet fluid control unit is one of an automated pump and a valve and the inlet fluid control unit is one of a valve, an automatic pump, and a manual pump.
- 6-9. (Cancelled)
10. (Previously Presented) The system as claimed in claim 12, wherein the control unit is a pump or a valve.

11. (Previously Presented) A baking system, comprising:

- a heat pipe including a top surface for receiving a wafer to be baked, the heat pipe to be filled with a predetermined amount of working fluid and having wicks formed on sides and a ceiling thereof for supplying the working fluid;
- a heater for heating the top surface by heating the working fluid;
- a cooling system for cooling the working fluid, the cooling system being a subsidiary cooling apparatus that contains a liquid coolant to be exchanged with the working fluid from the heat pipe;
- a connection pipe for providing fluid communication between the heat pipe and the cooling system; and
- a control unit for controlling a flow of the working fluid through the connection pipe; wherein the subsidiary cooling system includes:
  - a first coolant storage tank for storing the liquid coolant;
  - a first cooling system installed at the first coolant storage tank for cooling the working fluid supplied from the heat pipe; and
  - a second coolant storage tank in fluid communication with the first coolant storage tank, wherein the first cooling system extends to the second coolant storage tank.

12. (Previously Presented) A baking system, comprising:

- a heat pipe including a top surface for receiving a wafer to be baked, the heat pipe to be filled with a predetermined amount of working fluid and having wicks formed on sides and a ceiling thereof for supplying the working fluid;
- a heater for heating the top surface by heating the working fluid;
- a cooling system for cooling the working fluid, the cooling system being a subsidiary cooling apparatus that contains a liquid coolant to be exchanged with the working fluid from the heat pipe;
- a connection pipe for providing fluid communication between the heat pipe and the cooling system; and
- a control unit for controlling a flow of the working fluid through the connection pipe; wherein the subsidiary cooling system includes:
  - a first coolant storage tank for storing the liquid coolant;
  - a first cooling system installed at the first coolant storage tank for cooling the working fluid supplied from the heat pipe;

a second coolant storage tank in fluid communication with the first coolant storage tank; and

a second cooling system installed at the second coolant storage tank.

13. (Original) The system as claimed in claim 11, further comprising:  
an intermediate connection pipe for providing fluid communication between the first coolant storage tank and the second coolant storage tank; and  
an intermediate fluid control unit installed in the intermediate connection pipe.

14. (Cancelled)

15. (Cancelled)

16. (Previously Presented) The system as claimed in claim 12, wherein the working fluid is water, deionized water, acetone, or methyl.

17-21. (Cancelled)

22. (Previously Presented) The system as claimed in claim 12, wherein the control unit is installed in the connection pipe and controls flow of the liquid coolant.